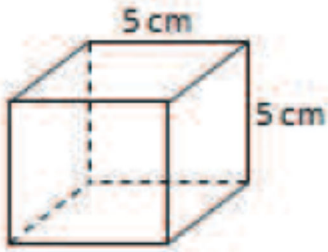


Surface Area and Volume Review

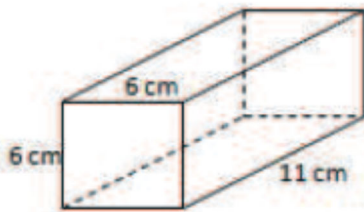
Name _____

Find the surface area and volume of each solid. Indicate the formulas used, the values substituted into the formulas. Circle your final answer, including units.

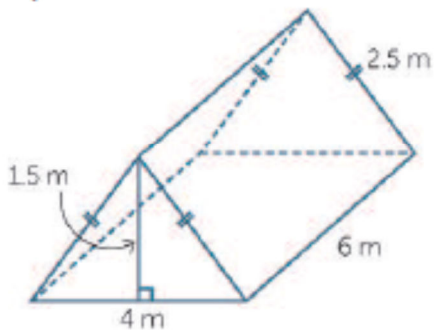
a)



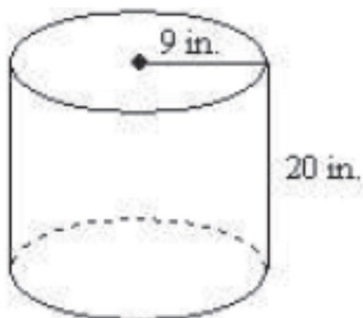
b)



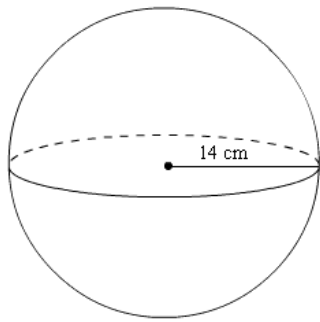
c)



d)



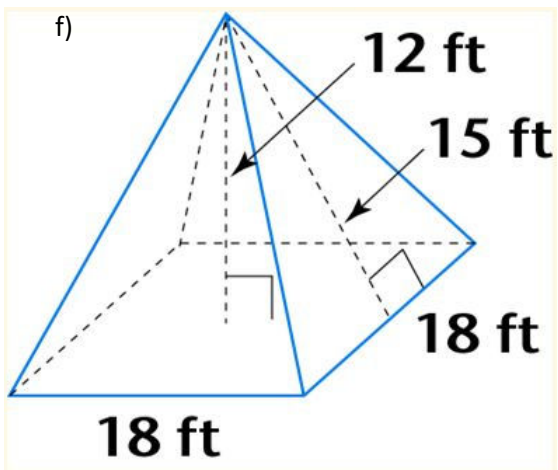
e)



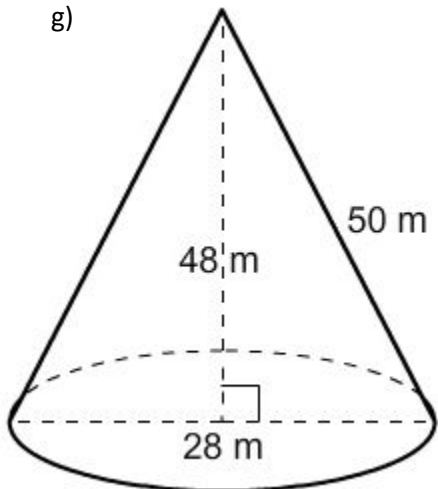
What would we do to calculate the surface area of a hemisphere (half a sphere) with the same radius?

What would we do to calculate the volume of a hemisphere with the same radius? _____

f)

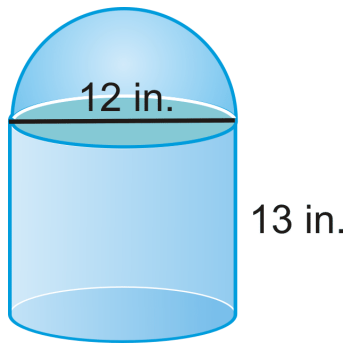


g)



h) This composite object is a hemisphere (half a sphere) attached to the top of a cylinder.

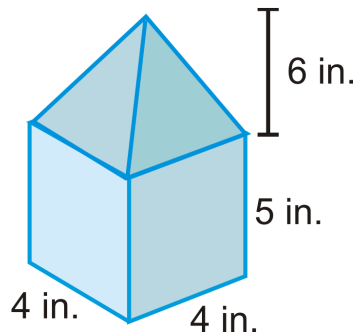
Calculate the total surface area and the volume of this composite object. Indicate the formulas. Substitute the values into the formula. Simplify. Calculate the total. Don't forget overlapping surfaces are **not** included when calculate surface area. **Indicate final answer circled, including units.**



i) This shape is a square-based pyramid attached to the top of a rectangular prism.

Calculate the total surface area and the volume of this composite object. Indicate the formulas. Substitute the values into the formula. Simplify. Calculate the total. Don't forget overlapping surfaces are not included when calculate surface area. **Indicate final answer circled, including units.**

Height of triangle: 3 in.



a) 150 cm^2 125 cm^3 b) 336 cm^2 396 cm^3 c) 60 m^2 36 m^3 d) 512 in^2 5089.4 in^3 e) 2463.0 cm^2 11494 cm^3
f) 864 ft^2 1296 ft^3 g) 10053.1 m^2 9852.0 m^3 h) 829.4 in^2 1922.7 in^3 i) 120 m^2 128 in^3